BIMA
BIOMETRICS IDENTITY MANAGEMENT AGENCY

National Defense Industrial Association Biometrics Conference Roadmap to Tomorrow

23 February 2011

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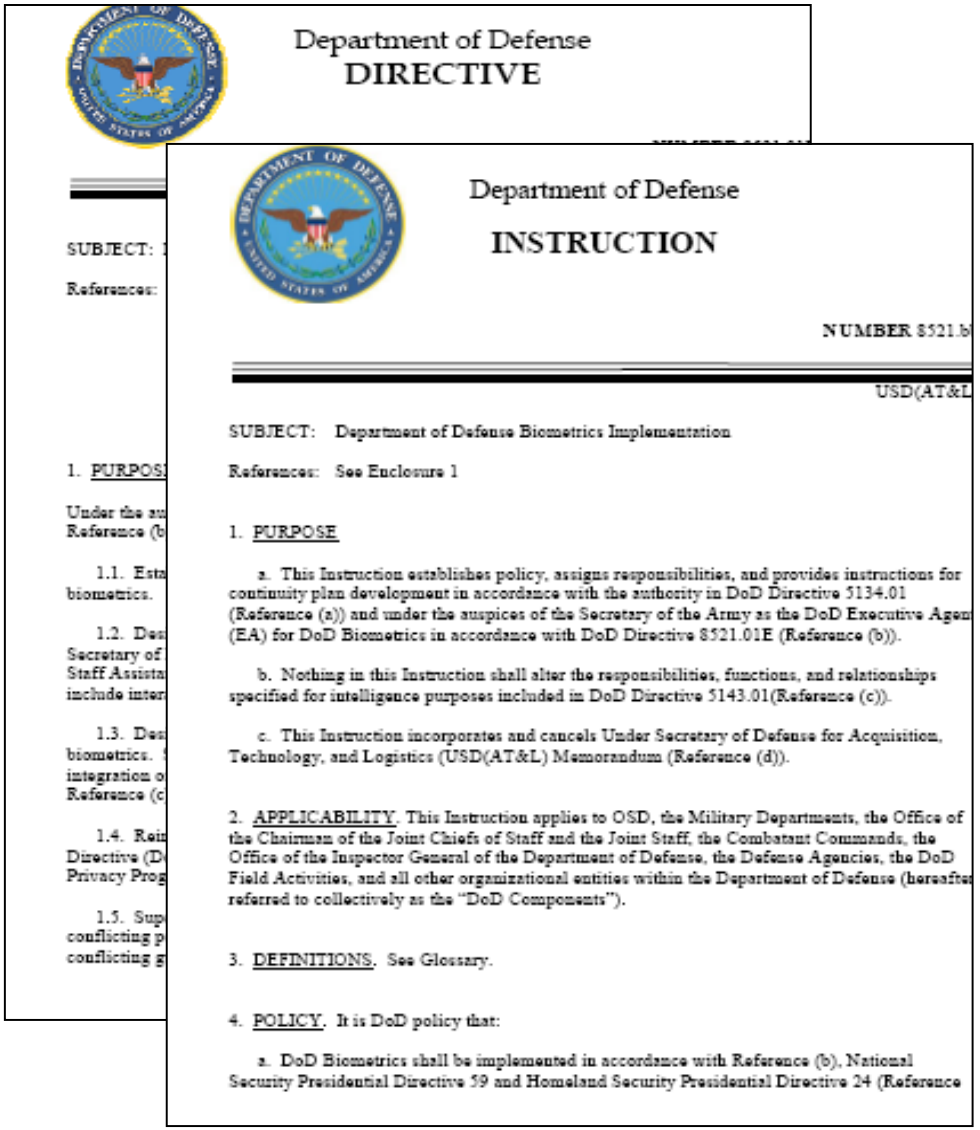
BIMA Vision

Vision: Protect the nation through the employment of Biometrics capabilities

The DoD Biometrics Enterprise

Key Players

- OSD
  - DDR&E (PSA)
  - DDB
- HQDA
  - G-2
  - G-3/5/7
  - G-6
  - ASA (ALT) (PEO-EIS)
- Joint Staff
- Services
- COCOMs
- OPMG
- TRADOC Capabilities Manager Biometrics & Forensics



Department of Defense
DIRECTIVE

SUBJECT:

References:

Department of Defense
INSTRUCTION

NUMBER 8521.b

USD(AT&L

SUBJECT: Department of Defense Biometrics Implementation

References: See Enclosure 1

1. PURPOSE

a. This Instruction establishes policy, assigns responsibilities, and provides instructions for continuity plan development in accordance with the authority in DoD Directive 5134.01 (Reference (a)) and under the auspices of the Secretary of the Army as the DoD Executive Agen (EA) for DoD Biometrics in accordance with DoD Directive 8521.01E (Reference (b)).

b. Nothing in this Instruction shall alter the responsibilities, functions, and relationships specified for intelligence purposes included in DoD Directive 5143.01(Reference (c)).

c. This Instruction incorporates and cancels Under Secretary of Defense for Acquisition, Technology, and Logistics (USD(AT&L) Memorandum (Reference (d)).

2. APPLICABILITY. This Instruction applies to OSD, the Military Departments, the Office of the Chairman of the Joint Chiefs of Staff and the Joint Staff, the Combatant Commands, the Office of the Inspector General of the Department of Defense, the Defense Agencies, the DoD Field Activities, and all other organizational entities within the Department of Defense (hereafte referred to collectively as the "DoD Components").

3. DEFINITIONS. See Glossary.

4. POLICY. It is DoD policy that:

a. DoD Biometrics shall be implemented in accordance with Reference (b), National Security Presidential Directive 59 and Homeland Security Presidential Directive 24 (Reference

Institutionalizing Biometrics

Rapid Acquisition

- Urgent Needs (JUONS, UONS)
- Integrated Rapid Fielding
- Sustainment

Urgent Capabilities

ABIS
BAT-A (w/ refresh)
HIIDE
BISA
SEEK

If need is Persistent

Deliberate Acquisition

- Requirements (JCIDS)
- Planning, Programming, Budgeting and Execution (PPBE)
- Defense Acquisition System (DAS)

BEC – Milestone B, 4Q FY 12
JPI v2 – Milestone B, 4Q FY 12

Program of Record

Biometrics Process in Support of DoD Operations

BIMA BIOMETRICS IDENTITY MANAGEMENT AGENCY

Global Communications

Biometric Modalities

- Fingerprint
- Iris
- Face
- Palm
- DNA
- Voice
- Future Modalities

Collect

Manage

Store

Match

Share

Analyze/Reference Data

Decide Act

Operational Application

- Populace Management
- Force Protection
- Access
- Surveillance
- Monitoring
- Combat ID

Maritime Interdiction Vessel

Military Operations and Business Functions

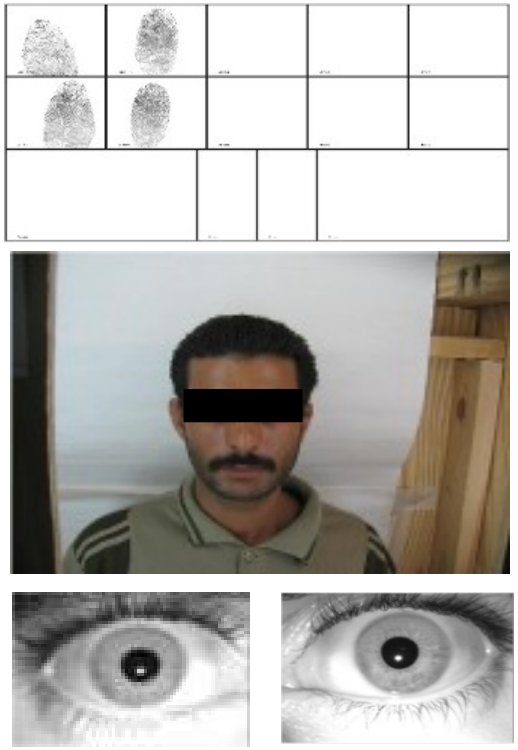
DoD ABIS Overview

- DoD ABIS online July 2004 (fingerprints only)
- DoD NG ABIS online 30 January 2009 (multi-modal)
- Stores and matches fingerprint, iris, face, and palm modalities
- 3,800+ transactions per day; rated for 8,
- 4.2M records rated capacity
- Greater operational capability
  - Single or multi-modal processing
  - Expandable to process additional m
  - 95% lights-out matches
  - Latent to latent searches
    - 120k latent fingerprints
    - 8600 latent matches; 3400 latent to latent matches
  - Latent palm print capabilities
- During data migration from ABIS to NG-ABIS, observed 10% new matches the previous system missed

Multi-Modal Biometric Fusion

Multi-modal biometric fusion (currently only DoD ABIS) results in:

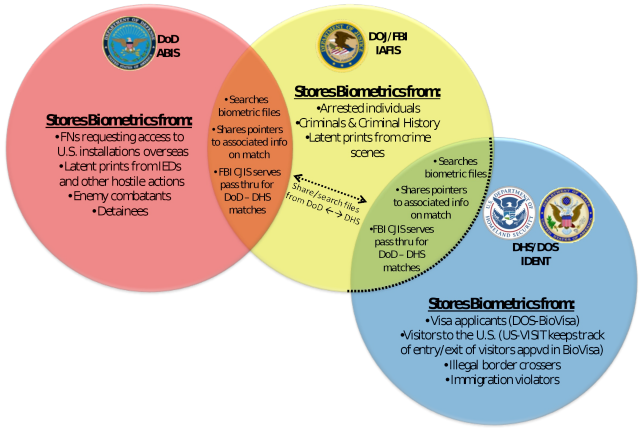
- **More matches through the correlation of other modalities**
- **More auto-identification, with lower number of manual examinations required**
- **Improved overall system accuracy and performance**



The fusion algorithm combined near matches to identify the

Interagency Data Sharing

Current State


DoD ABIS
Stores Biometrics from:
•FNs requesting access to U.S. installations overseas
•Latent prints from IEDs and other hostile actions
•Enemy combatants
•Detainees
•Searches biometric files
•Shares pointers to associated info on match
•FBI CJIS serves pass thru for DoD – DHS matches
DOJ/FBI IAFIS
Stores Biometrics from:
•Arrested individuals
•Criminals & Criminal History
•Latent prints from crime scenes
Share/search files from DoD ↔ DHS
•Searches biometric files
•Shares pointers to associated info on match
•FBI CJIS serves pass thru for DoD – DHS matches
DHS/DOS IDENT
Stores Biometrics from:
•Visa applicants (DOS-BioVisa)
•Visitors to the U.S. (US-VISIT keeps track of entry/exit of visitors appvd in BioVisa)
•Illegal border crossers
•Immigration violators

Desired End State

DoD ABIS

DOJ/FBI IAFIS

Stores Biometrics from:
- FNs requesting access to U.S. installations overseas
- Latent prints from IEDs and other hostile actions
- Enemy combatants
- Detainees

- Searches biometric files
- Shares pointers to associated info on match

Stores Biometrics from:
- Arrested individuals
- Criminals
- Latent prints from crime scenes

Action:
Prosecute/Exonerate
Allow/Deny Access
Detain/Release
Add to/remove from watch list

- Searches biometric files
- Shares pointers to associated info on match

- Searches biometric files
- Shares pointers to associated info on match

Stores Biometrics from:
- Visa applicants (DOS-BioVisa)
- Visitors to the U.S. (US-VISIT keeps track of entry/exit of visitors approved in BioVisa)
- Illegal border crossers
- Immigration violators

DHS/DOS IDENT

Areas for Expansion

- New Modalities – Voice, Gait, Ear Shape, etc
- Enhanced Capabilities
  - Facial Image Based Meta Data
  - Digitally-signed forensics images
  - Matching Algorithm
- New Domains
  - Friendly Biometrics (IDProTECT)
  - Defining New DoD Requirements
  - Addressing the Policy Considerations within new domains

Biometrics is an ENDURING CAPABILITY

Even after the completion of Overseas Contingency Operations, Biometrics will remain an enduring capability that enables DoD Stakeholders to execute their missions.

- **Biometrics will continue to support the Warfighter across the range of military operations**
- **Biometrics capabilities will grow to enable operations in new and evolving mission areas**
- **DoD Biometrics will expand our relationships and interaction with Interagency Partners**

Questions